

U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. 4100P7/CMP/CMP/RKK	Serial No. 10/608,513
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant Butterfield, et al.	Confirmation No.
(Use several sheets if necessary)		Filing Date June 26, 2003	Group 1753
Examiner Unknown			

## U.S. Patent Documents

*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
JEP	A1	6,033,293	03/07/2000	Crevasse et al.	451	494	
	A2	6,261,168	07/17/2001	Jensen et al.	451	527	
	A3	6,261,959	07/17/2001	Travis, et al.	438	692	
	A4	6,328,642	12/11/2001	Pant et al.	451	307	
	A5	6,331,135	12/18/2001	Sabde, et al.	451	41	
	A6	6,402,591	06/11/2002	Thornton	451	36	
	A7	6,406,363	06/18/2002	Xu et al.	451	296	
	A8	6,428,394	08/06/2002	Mooring et al.	451	41	
	A9	6,475,332	11/05/2002	Boyd et al.	156	345.12	
	A10	6,482,307	11/19/2002	Ashjaee et al.	205	103	
	A11	6,497,800	12/24/2002	Talieh et al.	204	224 R	
	A12	6,517,426	02/11/2003	Lee	451	5237	
	A13	6,520,843	02/18/2003	Halley	451	285	
	A14	6,551,179	04/22/2003	Halley	451	285	
	A15	6,561,889	05/13/2003	Xu et al.	451	526	
	A16	6,569,004	05/27/2003	Pham	451	526	
	A17	6,572,463	06/03/2003	Xu et al.	451	526	
	A18	6,585,579	07/01/2003	Jensen et al.	451	527	

## Foreign Patent Documents

*Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						YES	NO
	B1					<input type="checkbox"/>	<input type="checkbox"/>

## OTHER ART

*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.
	C1	
	C2	

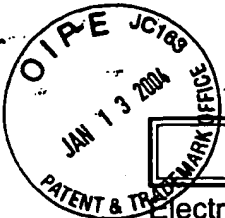
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Date Considered

12/30/06



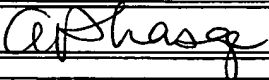
\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

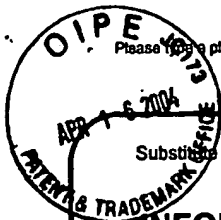


## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	CONDUCTIVE POLISHING ARTICLE FOR ELECTROCHEMICAL MECHANICAL POLISHING						
Application Number: 10/608513 							
Confirmation Number: 9303							
First Named Applicant: Paul Butterfield							
Attorney Docket Number: 4100P7/CMP							
Search string: ( 4713149 ).pn.							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4713149	1987-12-15	Hoshino	b1	204	23
Signature							
Examiner Name				Date			
				12/30/06			



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PTO/SB/08a (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Application Number

10/608,513

Filing Date

June 26, 2003

First Named Inventor

Butterfield, et al.

Group Art Unit

4742-1253

Examiner Name

Attorney Docket Number

4100P7/cmp/cmp/rkk

Submission Date

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AB	A1	US-6,368,184 B1	04-09-2002	Beckage	
	A2	US-2001/0005667 A1	06-28-2001	Tolles et al.	
	A3	US-2001/0036746 A1	11-01-2001	Sato et al.	
AB	A4	US-2002/0020621 A1	02-21-2002	Uzoh, et al.	
	A5	US-2002-0119286 A1	08-29-2002	Chen et al.	
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			
	A12	US-			
	A13	US-			
	A14	US-			
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

### FOREIGN PATENT DOCUMENTS

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		Country Code <sup>4</sup> -Number <sup>4</sup> -Kind Code <sup>4</sup> (if known)				
AB	B1	EP 0 325 753 A2	08-02-1989	International Business Machines		
AB	B2	WO 01/71066 A1	09-27-2001	Nu Tool Inc.		
AB	B3	WO 02/075804 A2	09-26-2002	Applied Materials Inc.		
	B4					
	B5					

Examiner

CPHase

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12/30/06

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	1742-1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

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		Number-Kind Code <sup>2</sup> (if known)			
ASD	A1	US-1,601,642	09/28/26	Parker	
	A2	US-1,927,162	09/19/33	Fiedler et al.	
	A3	US-2,112,691	03/29/38	Crowder	
	A4	US-2,240,265	04/29/41	Nachtman	
	A5	US-2,392,687	01/08/46	Nachtman	
	A6	US-2,431,065	11/18/47	Miller	
	A7	US-2,451,341	10/12/48	Jernstedt	
	A8	US-2,453,481	11/09/48	Wilson	
	A9	US-2,454,935	11/30/48	Miller	
	A10	US-2,456,185	12/14/48	Grube	
	A11	US-2,457,510	12/28/48	van Ornum	
	A12	US-2,458,676	01/11/49	Brenner et al.	
	A13	US-2,461,556	02/15/49	Lorig	
	A14	US-2,473,290	06/14/49	Millard	
	A15	US-2,477,808	08/02/49	Jones	
	A16	US-2,479,323	08/16/49	Davis	
	A17	US-2,480,022	08/23/49	Hogaboom	
	A18	US-2,490,055	12/06/49	Hoff	

## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
ASD	B1	EP 0 455 455	11/6/1991	AT&T		
	B2	EP 1361023	11/12/2003	Applied Materials		
	B3	JP 61265279	11/25/1986	Tohoku Metal Ind. Ltd.		Abst
	B4	JP 05-277957	10/26/1993	Nippon Micro Kootingu KK		X
	B5	JP 10-006213	1/13/1998	Tokyo Seimitsu Co Ltd		X

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Date Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	<del>1742</del> 1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AJP	A19	US-2,495,695	01/31/50	Camin et al.	
	A20	US-2,500,205	03/14/50	Schaefer	
	A21	US-2,500,206	03/14/50	Schaefer et al.	
	A22	US-2,503,863	04/11/50	Bart	
	A23	US-2,506,794	05/09/50	Kennedy et al.	
	A24	US-2,509,304	05/30/50	Klein	
	A25	US-2,512,328	06/20/50	Hays	
	A26	US-2,517,907	08/08/50	Mikulas	
	A27	US-2,519,945	08/22/50	Twele et al.	
	A28	US-2,530,677	11/21/50	Berkenkotter et al.	
	A29	US-2,535,966	12/26/50	Teplitz	
	A30	US-2,536,912	01/02/51	Coberdt	
	A31	US-2,539,898	01/30/51	Davis	
	A32	US-2,540,175	02/06/51	Rosenqvist	
	A33	US-2,544,510	03/06/51	Prahl	
	A34	US-2,544,943	05/29/51	Farmer	
	A35	US-2,549,678	04/17/51	Fiantt	
AJP	A36	US-2,556,017	06/05/51	Vonada	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
AJP	B6	JP 11-042554	2/16/1999	NEC Corp		X
	B7	JP-2870537	3/17/1999	NEC Corp		X
	B8	JP 2000-218513	8/8/2000	NEC Corp		X
	B9	JP 2001-179611	7/3/2001	NEC Corp		X
	B10	JP 2001-244223	9/7/2001	Hitachi Chem Co Ltd		X

Examiner

*AJP*

Date Considered

12/30/06

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	<del>4742</del> 1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
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### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
<i>AS</i>	A37	US-2,560,534	07/17/51	Adler	
	A38	US-2,560,966	07/17/51	Lee	
	A39	US-2,569,577	10/02/51	Reading	
	A40	US-2,569,578	10/02/51	Rieger	
	A41	US-2,571,709	10/16/51	Gray	
	A42	US-2,576,074	11/20/51	Nachtman	
	A43	US-2,587,630	03/04/52	Konrad et al.	
	A44	US-2,619,454	11/25/52	Zapponi	
	A45	US-2,633,452	03/31/53	Hogaboom, Jr., et al.	
	A46	US-2,646,398	07/21/53	Henderson	
	A47	US-2,656,283	10/20/53	Fink et al.	
	A48	US-2,656,284	10/20/53	Toulmin	
	A49	US-2,657,457	11/03/53	Toulmin	
	A50	US-2,657,177	10/27/53	Randel	
	A51	US-2,673,836	03/30/54	Vonada	
	A52	US-2,674,550	04/06/54	Dunlevy et al.	
	A53	US-2,675,348	04/13/54	Greenspan	
<i>AS</i>	A54	US-2,680,710	06/08/54	Kenmore et al.	

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		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>AS</i>	B11	JP 2001-77117	3/23/2001	Sony Corp.		X
	B12	KR 2003-037158	05/12/2003	Samsung Electronics		Abst
	B13	SU 1618538	1/7/1991	Rredmyiatie		Abst
	B14	WO 00/03426	1/20/2000	ACM Research		
<i>AS</i>	B15	WO 00/26443	5/11/2000	Nu Tool, Inc.		

Examiner

Date Considered

12/30/06

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AJP	A55	US-2,684,939	07/27/54	Geese	
	A56	US-2,689,215	09/14/54	Bart	
	A57	US-2,695,269	11/23/54	de Witz et al.	
	A58	US-2,696,859	08/17/54	Gray et al.	
	A59	US-2,698,832	01/04/95	Swanson	
	A60	US-2,706,173	04/12/55	Wells et al.	
	A61	US-2,706,175	04/12/55	Licharz	
	A62	US-2,708,445	05/17/55	Manson et al.	
	A63	US-2,710,834	06/14/55	Vrilakas	
	A64	US-2,711,993	06/28/55	Lyon	
	A65	US-3,162,588	12/22/64	Bell	
	A66	US-3,334,041	08/01/67	Dyer et al.	
	A67	US-3,433,730	03/18/69	Kennedy et al.	
	A68	US-3,448,023	06/03/69	Bell	
	A69	US-3,476,677	11/04/69	Corley et al.	
	A70	US-3,607,707	09/21/71	Chenevier	
	A71	US-3,873,512	03/25/75	Latanision	
	A72	US-3,942,959	03/09/76	Markoo, et al.	

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AJP	B16	WO 00/33356	6/8/2000	ACM Research		
	B17	WO 00/59682	10/12/2000	Nu Tool, Inc.		
	B18	WO 01/13416	2/22/2001	Nu Tool, Inc.		
	B19	WO 01/49452	7/12/2001	Advanced Micro Devices		
	B20	WO 01/52307	7/19/2001	Nu Tool, Inc.		

Examiner

*AJP*

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	1742 1253
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A73	A73	US-3,992,178	11/16/76	Markoo, et al.	
	A74	US-4,119,515	10/10/79	Costakis	
	A75	US-4,125,444	11/14/78	Inoue	
	A76	US-4,312,716	01/26/82	Maschler et al.	
	A77	US-4,752,371	06/21/88	Kreisel et al.	
	A78	US-4,772,361	09/20/88	Dorsett, et al.	
	A79	US-4,793,895	12/27/88	Kaanta, et al	
	A80	US-4,839,993	06/20/89	Masuko, et al.	
	A81	US-4,934,102	06/19/90	Leach, et al	
	A82	US-4,954,141	09/04/90	Takiyama et al.	
	A83	US-4,956,056	09/11/90	Zubatova, et al	
	A84	US-5,061,294	10/29/91	Harmer, et al.	
	A85	US-5,066,370	11/19/91	Andreshak et al.	
	A86	US-5,096,550	03/17/92	Mayer et al.	
	A87	US-5,108,463	04/28/92	Buchanan	
	A88	US-5,136,817	08/11/92	Tabata, et al	
	A89	US-5,217,586	06/08/93	Datta, et al	
	A90	US-5,225,034	07/06/93	Yu, et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>a</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
B21	B21	WO 01/63018	8/30/2001	Nu Tool, Inc.		
	B22	WO 01/88229	11/22/2001	ACM Research		
	B23	WO 01/88954	11/22/2001	Nu Tool, Inc.		
	B24	WO 02/064314	8/22/2002	Speedfam-IPEC Corp		
	B25	WO 02/23616	3/21/2002	ACM Research		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	4742 1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

Sheet 6 of 11

### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
AJP	A91	US-5,478,435	12/26/95	Murphy, et al.	
	A92	US-5,534,106	07/09/96	Cote, et al.	
	A93	US-5,543,032	08/06/96	Datta, et al.	
	A94	US-5,562,529	10/08/96	Kishii, et al.	
	A95	US-5,567,300	10/22/96	Datta, et al.	
	A96	US-5,575,706	11/19/96	Tsal, et al.	
	A97	US-5,578,362	11/26/96	Reinhardt et al.	
	A98	US-5,624,300	04/29/97	Kishii, et al.	
	A99	US-5,738,574	04/14/98	Tolles, et al.	
	A100	US-5,804,507	09/08/98	Perlov, et al.	
AJP	A101	US-5,807,165	09/15/98	Uzoh, et al.	
	A102	US-5,823,854	10/20/98	Chen	
	A103	US-5,840,629	11/24/98	Carpio	
	A104	US-5,846,882	12/08/98	Birang	
	A105	US-5,871,392	02/16/99	Meikle et al.	
	A106	US-5,882,491	03/16/99	Wardle	
	A107	US-5,911,619	06/15/99	Uzoh, et al.	
	A108	US-5,948,697	09/07/99	Hata	
	A109	US-5,938,801	08/17/99	Robinson	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
AJP	B26	WO 03/001581	1/3/2003	Micron Technology		
	B27	WO 93/15879	8/19/1993	3M Co.		
	B28	WO 98/49723	11/5/1998	3M Co.		
AJP	B29	WO 99/41434	8/19/1999	ACM Research		
	B30	WO 99/53119	10/21/1999	ACM Research		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	4742 1253
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

Sheet 7 of 11

### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
AB	A110	US-5,985,093	11/16/99	Chen	
	A111	US-6,001,008	12/14/99	Fujimori, et al.	
	A112	US-6,004,880	12/21/99	Liu, et al	
	A113	US-6,017,265	01/25/00	Cook et al.	
	A114	US-6,020,264	02/01/00	Lustig, et al.	
	A115	US-6,024,630	02/15/00	Shendon, et al.	
	A116	US-6,056,851	05/02/00	Hsieh, et al.	
	A117	US-6,066,030	05/23/00	Uzoh	
	A118	US-6,074,284	06/13/00	Tani, et al.	
	A119	US-6,077,337	06/20/00	Lee	
	A120	US-6,090,239	07/18/00	Liu, et al	
	A121	US-6,103,096	08/15/00	Datta, et al	
	A122	US-6,116,998	09/12/00	Damgaard, et al.	
	A123	US-6,153,043	11/28/00	Edelstein, et al.	
	A124	US-6,156,124	12/05/00	Tobin	
	A125	US-6,159,079	12/12/00	Zuniga, et al.	
	A126	US-6,171,467	01/09/01	Weihs et al.	
	A127	US-6,176,992	01/23/01	Talieh	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
AB	B31	WO 99/65072	12/16/1999	Speedfam-IPEC Corp		
	B32					
	B33					
	B34					
	B35					

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	4742 1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
AEP	A128	US-6,176,998	01/23/01	Wardle et al.	
	A129	US-6,183,354	02/06/01	Zuniga, et al.	
	A130	US-6,190,494	02/20/01	Dow	
	A131	US-6,210,257	04/03/01	Carlson	
	A132	US-6,234,870	05/22/01	Uzoh, et al	
	A133	US-6,238,271	05/29/01	Cesna	
	A134	US-6,238,592	05/29/01	Hardy et al.	
	A135	US-6,244,935	06/12/01	Blrang, et al.	
	A136	US-6,248,222	06/19/01	Wang	
	A137	US-6,251,235	06/26/01	Talieh, et al.	
	A138	US-6,273,798	08/14/01	Berman	
	A139	US-6,297,159	10/02/01	Paton	
	A140	US-6,319,420	11/20/01	Dow	
	A141	US-6,328,872	12/11/01	Talieh, et al.	
	A142	US-6,381,169	04/30/02	Bocian, et al.	
AEB	A143	US-6,386,956	05/14/02	Sato, et al	
	A144	US-6,391,166	05/21/02	Wang	
	A145	US-6,395,152	05/28/02	Wang	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B36					
	B37					
	B38					
	B39					
	B40					

Examiner

A. Phasge

Date Considered

12/30/06

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	<del>1742</del> 1753
Examiner Name	
Attorney Docket Number	4100P7/CMP/CMP/RKK
Submission Date	

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of 11

### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
A18	A146	US-6,402,925	06/11/02	Talieh	
	A147	US-6,409,904	06/25/02	Uzoh, et al.	
	A148	US-6,431,968	08/13/02	Chen, et al.	
	A149	US-6,440,295	08/27/02	Wang	
	A150	US-6,447,668	09/10/02	Wang	
	A151	US-6,471,847	10/29/02	Talieh, et al.	
	A152	US-6,479,962	11/12/02	Ziemkowski, et al.	
	A153	US-6,537,144	03/25/03	Tsai, et al.	
	A154	US-6,630,059	10/07/03	Uzoh, et al.	
	A156	US-6,666,959	12/23/03	Uzoh, et al.	
	A157	US-2001/0024878	09/27/01	Nakamura	
	A158	US-2001/0027018	10/04/01	Molnar	
	A159	US-2001/0035354	11/01/01	Ashjaee, et al.	
A18	A160	US-2001/0040100	11/15/01	Wang	
	A161	US-2001/0042690	11/22/01	Talieh	
	A162	US-2002/0008036	01/24/02	Wang	
	A163	US-2002/0011417	01/31/02	Talieh, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B41					
	B42					
	B43					
	B44					
	B45					

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*A. Phasge*

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 10

of 11

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield
Group Art Unit	1742 1753
Examiner Name	
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PSP	A164	US-2002/0025763	02/28/02	Lee et al.	
	A165	US-2002/0070126	06/13/02	Sato, et al.	
	A166	US-2002/0077037	06/20/02	Tietz	
	A167	US-2002/0088715	07/11/02	Talieh, et al.	
	A168	US-2002/0108861	08/15/02	Emesh et al.	
	A169	US-2002/0123300	09/05/02	Jones, et al.	
	A170	US-2002/0130049	09/19/02	Chen et al.	
	A171	US-2002/0130634	09/19/02	Ziemkowski, et al.	
	A172	US-2003/0034131	02/20/03	Park et al.	
	A173	US-2003/0114087	06/19/03	Duboust et al.	
	A174	US-2003/0116445	06/26/03	Sun et al.	
	A175	US-2003/0116446	06/26/03	Duboust et al.	
	A176	US-2003/0213703	11/20/03	Wang et al.	
	A177	US-			
	A178	US-			
	A179	US-			
	A180	US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
.	B1					
	B2					
	B3					
	B4					
	B5					

Examiner

Date Considered

12 30 06

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PTO/SB/08b (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/608,513
		Filing Date	June 26, 2003
		First Named Inventor	Butterfield
		Group Art Unit	1742 1753
		Examiner Name	
		Attorney Docket Number	4100P7/CMP/CMP/RKK
Sheet 11	of 11	Submission Date	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
APF	C1	Alexander, Jr., "Electrically Conductive Polymer Nanocomposite Materials", <a href="http://www.afrhorizons.com/Briefs/Sept02/ML0206.html">http://www.afrhorizons.com/Briefs/Sept02/ML0206.html</a> printed 02/19/2003	
APF	C2	Contolini, "Electrochemical Planarization of ULSI Copper," Solid State Technology, Vol. 40, No. 6, June 1, 1997	
APF	C3	Nogami, "An Innovation in Integrate Porous Low-K Materials and Copper," InterConnect Japan 2001; Honeywell Seminar December 6, 2001, p 1-12.	

Examiner	<i>APF</i>	Date Considered	12/30/06
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Substitute for form 1449A/PTO

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 3

### Complete if Known

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield, et al.
Art Unit	4742-1783
Examiner Name	Unknown
Attorney Docket Number	AMAT/4100.P7/CMP/CMP/RKK

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
PFB	A1	US-4,047,902	09/13/1977	Wiand	
	A2	US-4,082,638	04/04/1978	Jumer	
	A3	US-4,523,411	06/18/1985	Freerks	
	A4	US-4,704,511	11/03/1987	Miyano	
	A5	US-4,752,371	06/21/1988	Kreisel, et al.	
	A6	US-5,011,510	04/30/1991	Hayakawa, et al.	
	A7	US-5,137,542	08/11/1992	Buchanan, et al.	
	A8	US-5,203,884	04/20/1993	Buchanan, et al.	
	A9	US-5,328,716	07/12/1994	Buchanan	
	A10	US-5,560,753	10/01/1996	Schnabel, et al.	
	A11	US-5,633,068	05/27/1997	Ryoke, et al.	
	A12	US-5,654,078	08/05/1997	Ferronato	
	A13	US-5,702,811	12/30/1997	Ho, et al.	
	A14	US-5,840,190	11/24/1998	Scholander, et al.	
	A15	US-6,319,108	11/20/2001	Adefris, et al.	
	A16	US-6,368,190	04/09/2002	Easter, et al.	
	A17	US-6,383,066	05/07/2002	Chen, et al.	
	A18	US-6,537,140	03/25/2003	Miller, et al.	
	A19	US-6,656,019	12/02/2003	Chen, et al.	
	A20	US-6,685,548	02/03/2004	Chen, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>6</sup> (if known)				
PFB	B1	JP 58-171264 (English abstract)	10/7/1983	Nitto Electric		X
	B2	JP 61-079666 (English abstract)	4/23/1986	Fujitsu		X
	B3	JP 63-028512 (English abstract)	2/6/1988	Hitachi Ltd.		X

Examiner  
Signature

*W. Phasol*

Date  
Considered

12/30/06

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Examiner Signature		Date Considered	12/30/06
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/608,513
		Filing Date	June 26, 2003
		First Named Inventor	Butterfield, et al.
		Art Unit	1742-1753
		Examiner Name	Unknown
		Attorney Docket Number	AMAT/4100.P7/CMP/CMP/RKK
Sheet	3	of	3

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>AS</i>	C1	Partial International Search / PCT Invitation to pay additional fees dated Nov. 14, 2002 (4100 PC 02)	
	C2	Notification regarding review of justification for invitation to pay additional fees for PCT/US/02/11009 (4100 PC 02) dated February 25, 2003	
	C3	International Search Report for PCT/US 02/11009 (4100 EP 02) dated February 25, 2003	
	C4	PCT Written Opinion dated April 1, 2003 for PCT/US02/11009. (4100 EP 02)	
	C5	Notification of Transmittal of International Preliminary Examination Report dated November 10, 2003 (4100 EP 02)	
	C6	European Search Report for 03252801.0, dated January 16, 2004 (7047 EP).	
	C7	Communication pursuant to Article 96(2) EPC for Application No. 02728965.4, dated June 11, 2004 (4100 EP 02)	
	C8	Copy of Search Report issued by the Austrian Patent Office for corresponding Singapore Patent Application No. 200302562-4, provided by letter dated October 7, 2004.	
	C9	Invitation to pay additional fees dated November 11, 2004 (4100 P5 PCT)	
	C10	Notification of Transmittal of International Preliminary Examination Report and Written Opinion dated February 21, 2005 (4100 PCT)	
<i>AS</i>	C11	Notification of transmittal of the International Search report and Written Opinion dated March 14, 2005 (4100 P5 PCT)	

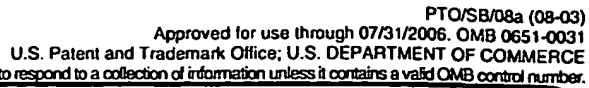
Examiner Signature	<i>AS</i>	Date Considered	12/30/06
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Sheet 1 of 2

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield, et al.
Art Unit	<del>1742</del> 1753
Examiner Name	Unknown
Attorney Docket Number	AMAT/4100.P7/CMP/CMP/RKK

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
ASB	A1	US-5,674,122	10/07/1997	Krech	
	A2	US-6,372,001	04/16/2002	Omar, et al.	
	A3	US-6,379,223	04/30/2002	Sun, et al.	
	A4	US-6,413,388	07/02/2002	Uzoh, et al.	
	A5	US-2003/0013397	01/16/2003	Rhoades	
ASB	A6				
	A7				
	A8				
	A9				
	A10				
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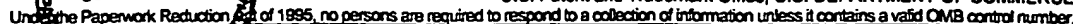
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	1	of	1
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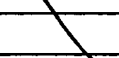


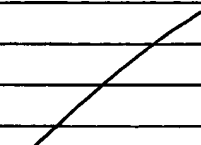
**Complete if Known**

<b>Application Number</b>	10/608,513
<b>Filing Date</b>	JUNE 26, 2003
<b>First Named Inventor</b>	BUTTERFIELD, ET AL.
<b>Art Unit</b>	<del>4742</del> 1753
<b>Examiner Name</b>	UNKNOWN
<b>Attorney Docket Number</b>	AMAT/4100.P7/CMP/CMP/RKK

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	B1	JP 06-047678 (English Abs.)	02/22/1994	Kawasaki Steel Corp.		X
	B2	JP 11-216663	12/12/2000	Sony Corp.		
	B3	WO 00/71297	11/30/2000	Lam Research, Corp.		
						

**Examiner  
Signature**

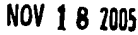
Date Considered

12	30	06
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Sheet	1	of	1
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Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Paul D. Butterfield
Art Unit	1742 1753
Examiner Name	Unknown
Attorney Docket Number	APPM/004100.P7/PPC/CMP/CKIM

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STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet	1	of	2
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Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield, et al.
Art Unit	4742-1753
Examiner Name	Unassigned
Attorney Docket Number	APPM004100 P7/PPC/CMP/CKIM

**U.S. PATENT DOCUMENTS**

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

Chase

Date Considered

123006

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	2	of	2
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**Complete if Known**

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield, et al.
Art Unit	1742 1253
Examiner Name	Unassigned
Attorney Docket Number	APPM/004100.P7/PPC/CMP/CKIM

### NON PATENT LITERATURE DOCUMENTS

[illegible]

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Date Considered

12/30/00

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet	1	of	1
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**Complete if Known**

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Paul D. Butterfield
Art Unit	4742 / 753
Examiner Name	Unknown
Attorney Docket Number	APPM/004100.P7/PPC/CMP/CKIM

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
ASL	A1	6,561,873	05/13/03	Tsai, et al.	
	A2	6,858,761	02/15/05	Doran	
	A3	6,962,524	11/08/05	Butterfield, et al.	
	A4	2002/0102853	08/01/02	Li, et al.	
	A5	2003/0209448	11/13/03	Hu, et al.	
	A6	2004/0020788	02/05/04	Mavliev, et al.	
	A7	2004/0020789	02/05/04	Hu	
	A8	2004/0023495	02/05/04	Butterfield, et al.	
	A9	2004/0082288	04/29/04	Tietz, et al.	
	A10	2004/0121708	06/24/04	Hu, et al.	
	A11	2004/0163946	08/26/04	Chang, et al.	
	A12	2004/0268327	12/30/04	Chen, et al.	
	A13	2005/0000801	01/06/05	Wang, et al.	
	A14	2005/0092621	05/05/05	Hu, et al.	
	A15	2005/0133363	08/23/05	Hu, et al.	
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	A18	2005/0194681	09/08/05	Hu, et al.	
	A19				
	A20				

## FOREIGN PATENT DOCUMENTS

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Complete if Known**

Application Number	10/608,513
Filing Date	June 26, 2003
First Named Inventor	Butterfield, Paul D.
Art Unit	1742-1253
Examiner Name	Unknown
Attorney Docket Number	APPM/4100.P7/PPC/CMP/RKK

Sheet	1	of	2
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## U.S. PATENT DOCUMENTS

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